

DE9-1999-0087

Listing of Claims

1. (currently Amended) A computer-implemented method for running in parallel at least one parallel method called by a sequential caller program, said computer-implemented method comprising:

issuing a dedicated parallelization call to a parallel program manager comprising all control information, said control information comprising the name, serialized arguments, and parallelization parameters for said parallel method, needed to allow for running said parallel method as a parallel program, as well as variables for receiving results, wherein programming of said parallel program manager and said parallel program are independent of the programming of said sequential caller program in at least one of the following aspects: programming language, compilation, linkage, and hardware platforms.

2. (currently Amended) The computer-implemented method according to claim 1 further comprising:

serializing input arguments for a subprogram means,

running said parallel method in parallel on one or more different machines yielding a result,

returning said result to the caller program, and

deserializing the result.

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3. (currently amended) The computer-implemented method according to claim 1 further comprising the step of generating said parallel method with a script program means which in turn is arranged to invoke a stream editor in order to fill a template means with the code or the name of the parallel method to be computed in parallel.
4. (currently amended) The computer-implemented method according to claim 3, further comprising the step of automatically generating an instantiation of said template means.
5. (currently amended) The computer-implemented method according to claim 4 in which a script is used for generating parallel subprograms.
6. (currently amended) The computer-implemented method according to claim 1 in which said dedicated parallelization call is done more than once during the run of said caller program means.
7. (currently amended) The computer-implemented method according to claim 6 in which parallelization parameters are selectable for each dedicated parallelization call.
8. (currently amended) The computer-implemented method according claim 2 further comprising the step of using a program library which comprises program means for performing the steps of serializing input arguments, running said parallel method in parallel, returning said result and deserializing the result.

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9. (currently Amended) A distributed computer system comprising at least two processing entities arranged for running in parallel at least one parallel method called by a sequential caller program, said system comprising:

processor component means for issuing a dedicated parallelization call to a parallel program manager comprising all control information, said control information comprising the name, serialized arguments, and parallelization parameters for said parallel method, needed to allow for said processing entities to run running said parallel method as a parallel program, as well as variables for receiving results, wherein programming of said parallel program manager and said parallel program are independent of the programming of said sequential caller program in at least one of the following aspects: programming language, compilation, linkage, and hardware platforms.

10. (canceled)

11. (currently amended) A computer program product stored on a computer usable medium comprising a computer readable program for causing a computer to perform a computer-implemented method for running in parallel at least one parallel method called by a sequential caller program, said computer-implemented method comprising:

issuing a dedicated parallelization call to a parallel program manager comprising all control information, said control information comprising the name,

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serialized arguments, and parallelization parameters for said parallel method, needed to allow for running said parallel method as a parallel program, as well as variables for receiving results, wherein programming of said parallel program manager and said parallel program are independent of the programming of said sequential caller program in at least one of the following aspects: programming language, compilation, linkage, and hardware platforms.

12. (currently amended) A program library stored on a computer readable medium comprising at least one of:

an implementation of an application interface for procedural parallel operating environment (POE) calls to a parallel program manager, wherein programming of said application interface is independent of the programming of said parallel program manager in at least one of the following aspects: programming language, compilation, linkage, and hardware platforms;

template means for parallel subprogram means; and

script means for generating parallel subprograms.

13. (previously presented) The library according to claim 12 which provides prerequisites to generate user library functions that make parallelism transparent to a caller of said user library functions.

14. (previously presented) A user library generated by means of the library according to claim 12.

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15. (previously presented) The library according to claim 12 which said library is a dynamic link library.

16. (currently amended) A parallel program managing tool stored on a computer readable medium comprising program means for returning results from parallel executable subprogram means to a sequential caller program wherein programming of said parallel executable subprogram means is independent of the programming of said sequential caller program in at least one of the following aspects: programming language, compilation, linkage, and hardware platforms.